Chris Cao

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🎓 Education

Queen's University   2020
Master of Management Analytics (GPA 4.1/4.3 - top 5%)   *Toronto, ON*

University of Toronto   2016
BSc in Applied Mathematics - Statistics Stream (Co-op Program)   *Toronto, ON*

◔ Experience

CPP Investments   Nov 2019 - Present
Senior Analyst/Developer (Python, Spark, AWS, SQL, Tableau, HTML/CSS, Jenkins)   *Toronto, ON*
> Built automated ETL Pipelines for big data processing with Python/SQL Server/AWS/Jenkins
> Designed and maintained over 7 fully automated enterprise-level BI Dashboards in Tableau
> Developed internal Python utility libraries/algorithms which include Data Loader/Mapper, Tableau Publisher etc.

Allstate Canada   Mar 2019 - Nov 2019
BI/Machine Learning Consultant (Python, SQL, R, SAS, Tableau, SSIS)   *Toronto, ON*
> Utilized Python and its ML Libraries (Scikit-Learn, Pyspark etc.) to implement pricing models
> Led BI Reporting Automation/Migration Project by reducing daily processing time by 80%

Portfolio Aid   Mar 2017 - Mar 2019
Business System Analyst (Python, AWS, SQL, Selenium, Linux/Unix)   *Toronto, ON*
> Designed automated testing framework and developed test scripts to execute regression/functional testing
> Developed and optimized supervised risk rating classification models using SVM/Random Forest/Logistic Regression algorithms along with PCA/Boosting/Bagging techniques

Bell Canada   Dec 2016 - Mar 2017
Marketing Data Consultant (Python, SQL, Tableau)   *Toronto, ON*
> Gathered modelling data through surveys, web scraping, and Facebook Analytics API
> Performed in-depth data analysis to identify key metrics and derive actionable business insights

Sunlife Financial   Sep 2015 - Dec 2015
BI Analyst Intern   *Toronto, ON*

Ontario Ministry of Education   May 2015 - Aug 2015
IT Analyst Intern   *Toronto, ON*

CIBC   Jan 2015 - Apr 2015
QA Analyst Intern   *Toronto, ON*

⚗ Projects

Airbnb Price Optimization and Recommender Application
> Conducted extensive feature engineering, sentiment analysis and data visualizations with Python
> Developed a price optimization model that maximize profit and a recommender system that suggest listings to users
> Deployed the data/models and a interactive website to Amazon Web Service

⚙ Skills

Programming Python, Spark/Hadoop, SQL, Cassandra, HTML/CSS, Java, Linux/Unix, Git
Big Data/Machine Learning AWS (EC2, S3, Redshift, EMR), TensorFlow, Supervised/Unsupervised Learning Algorithms, NLP, Recommender System, NNs